## Geomagnetic & Gravity Data available from NGDC

NGDC and the collocated World Data Center for Solid Earth Geophysics, Boulder archive many digital data files and analog data sets containing descriptions, imagery, and models of Earth's magnetic and gravity fields.

**Geomagnetism** is one of the oldest of the geophysical sciences, pre-dating William Gilbert's 1600 publication of De Magnet. NGDC maintains archives of geomagnetic data to further the understanding of Earth's magnetism and the Sun-Earth environment. Data at NGDC include surface, ocean, airborne and satellite measurements, as well as models of the main field and its secular change, and models of the Space-Earth environment. Data on Earth's ancient magnetic field are available from archeomagnetic and paleomagnetic measurements. A general information page and answers to Frequently Asked Questions (FAQ) page for those interested in learning more about geomagnetism. For more information, visit NGDC's Web site:

http://www.ngdc.noaa.gov/seg/geomag/

Gravity data at NGDC include land and marine surveys, grids, models, and geoids. In general, data parameters include latitude, longitude, observed gravity and elevation, Bouguer gravity anomaly (land), and free-air anomaly (ocean). In all cases, each data set contains associated documentation, including source contributor. For more information, visit NGDC's Web site:

http://www.ngdc.noaa.gov/seg/gravity/

US Department of Commerce
National Oceanic & Atmospheric Administration (NOAA)
National Environmental Satellite, Data & Information Service
National Geophysical Data Center



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Phone: 303-497-6826 Fax: 303-497-6513 TDD: 303-497-6958 Email: ngdc.info@noaa.gov http://www.ngdc.noaa.gov/

NGDC Online Store and products: http://www.ngdc.noaa.gov/products/

Geomagnetism & Gravity ordering information:

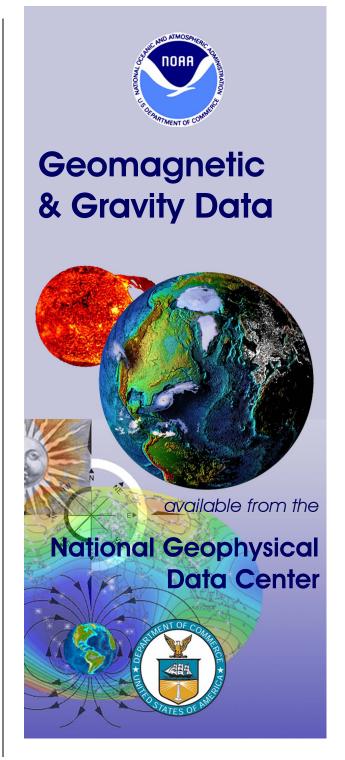
Contact: Kathy Martin
Phone: 303-497-6826
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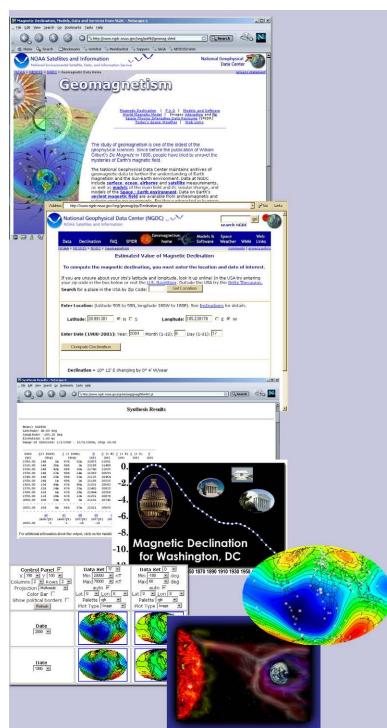
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http://www.ngdc.noaa.gov/seg/geomag/ http://www.ngdc.noaa.gov/seg/gravity/

NOAA Satellites and Information http://www.nesdis.noaa.gov/





Geomagnetic and Gravity data are used for such diverse applications as navigation, resource exploration, satellite launch and orbit parameters, inertial navigation and guidance systems, and determination of Earth's substructure. Long-term data can be used to establish the past environment and to estimate the near-term conditions. These data are important for military, commercial, and public use. The National Geophysical Data Center plays a major role in global data collection, archive, model production and service to the research and broader community.

## **Products and Services**

NGDC offers a wide range of products and services related to Earth's past, present, and future magnetic field as well as regional and global gravity surveys, grids, and models. Visit our Web site or contact us (see back) for more information.

## **Sample Products**

(Counter-clockwise from upper left):
Surface, air, marine, and space weather
magnetic data access
Magnetic declination online
Magnetic field imagery
Gravity data (point, grid, free-air, isostatic)
Surface Gravity Prediction (NGS)
Land and marine gravity data access

http://www.ngdc.noaa.gov/seg/geomag/ http://www.ngdc.noaa.gov/seg/gravity/ http://declination.ngdc.noaa.gov/

